

IN THE CLAIMS

Please amend the claims as shown:¹

1. (currently amended) A method of optimizing the delivery of content data from a web server to a client device, said method comprising:
 - storing a plurality of files, including files containing non-optional content data and optional content data;
 - receiving a request for content data from a client device;
 - determining performance characteristics of the requesting client device, the performance characteristics being selected from the group consisting of client device operating system, connection type, processor type, amount of memory, user preferences, display size, and software installed;
 - selecting one of the plurality of stored files for providing to the client device;
 - automatically including from the selected file the non-optional content data, and automatically selecting optional content data responsive to the performance characteristics of the requesting client device; and
 - transmitting the selected file, including the non-optional content data and the selected optional content data to the requesting client device.

¹ I have modified formatting for some claims without indicating any change. Also, I will delete any footnotes before filing.

2. (original) The method of claim 1 wherein selecting optional content further comprises:

selecting one of a plurality of content items responsive to the at least one performance characteristic characteristics of the requesting client device.

3. (original) The method of claim 2 wherein the plurality of content items is ordered with respect to highest and lowest performance characteristics of client devices, and selecting comprises:

responsive to a client device having a highest performance characteristic, selecting a first ordered content item.

4. (original) The method of claim 2 wherein the plurality of content items is ordered with respect to highest and lowest performance characteristics of client devices, and selecting further comprises:

responsive to a the requesting client device having a highest performance characteristic, selecting a last ordered content item.

5. (currently amended) The method of claim ~~2~~ 3 wherein optimization constraints are assigned to classes of client devices, and each class of client device has different performance characteristics, further comprising:

~~determining the performance characteristics of the requesting client device;~~

determining a class of client device to which the requesting client device belongs responsive to the determined performance characteristics of the requesting client device; and

assigning the requesting client device an optimization constraint responsive to the determined class of client device to which the requesting client device belongs; and

wherein the step of selecting comprises selecting a content item whose order corresponds to the optimization constraint.

6. (original) The method of claim 5 further comprising:

responsive to an optimization constraint specifying a class of device having a lowest performance characteristic, selecting a content item requiring a least amount of bandwidth to be transmitted.

7. (original) The method of claim 5 further comprising:

responsive to an optimization constraint specifying a class of device having a lowest performance characteristic, selecting a content item comprising a least amount of data.

8. (original) The method of claim 2 wherein optimization constraints are associated with each content item, and the optimization constraints index classes of client devices, wherein each class of client device has different performance characteristics, further comprising:

assigning the requesting client device an optimization constraint responsive to the performance characteristics of the requesting client device; and

selecting comprises selecting a content item responsive to the assigned optimization constraint.

9. (original) The method of claim 8 wherein assigning an optimization constraint responsive to the performance characteristics of the requesting client device further comprises:

determining a connection type in use by the client device; and

associating an optimization constraint responsive to the connection type of the client device.

10. (original) The method of claim 2 wherein optimization constraints are associated with each content item, and the optimization constraints index classes of client devices, wherein each class of client device has different performance characteristics, further comprising:

assigning the requesting client device an optimization constraint responsive to the performance characteristics of the requesting client device; and

selecting comprises selecting a content item responsive to the assigned optimization constraint.

11. (original) The method of claim 8 wherein

assigning an optimization constraint responsive to the performance characteristics of the requesting client device further comprises: determining a processor type in use by the requesting client device; and

associating an optimization constraint further comprises: associating an optimization constraint responsive to the processor type in use by the requesting client device.

12. (original) The method of claim 8 wherein

assigning an optimization constraint responsive to the performance characteristics of the requesting client device further comprises: determining an amount of memory in use by the requesting client device; and

associating an optimization constraint further comprises: associating an optimization constraint responsive to the amount of memory in use by the requesting client device.

13. (original) The method of claim 8 wherein

assigning an optimization constraint responsive to the performance characteristics of the requesting client device further comprises: determining a display type in use by the requesting client device; and

associating an optimization constraint further comprises: associating an optimization constraint responsive to the display type size in use by the requesting client device.

14. (currently amended) A system for transmitting content data over a network, comprising:

a content server, for receiving a request for content from a client device, selecting non-optional and optional content of content data, the optional content selected responsive to performance characteristics of the client device, the performance characteristics being selected from the group consisting of requesting client device operating system, connection type, processor type, amount of memory, user preferences, display size, and software installed, and transmitting the non-optional and selected optional content to the requesting client device.

15. (original) The system of claim 14 further comprising a plurality of client devices, for transmitting requests for content to the content server and receiving content transmitted from the content server, at least one client device having different performance characteristics than at least one other client device.

16. (original) The system of claim 14 wherein optimization constraints index classes of client devices based upon performance characteristics and the optional content within a context data is indexed by the optimization constraints, and the content server selects optional content from the context data responsive to assigning an optimization constraint to a requesting client device.

17-19. (canceled).²

20. (currently amended) A method of delivering a web page comprising:

storing a plurality of web pages, including web pages containing non-optional content data and optional content data;

receiving a request for transmission of at least one of the web pages from a remote device;

determining at least one performance characteristic of the remote device, the at least one performance characteristic being selected from the group consisting of remote device operating system, connection type, processor type, amount of memory, user preferences, display size, and software installed;

~~selecting one of the plurality of stored web pages for providing to the remote device;~~

~~automatically including from the selected web page the non-optional content data, and~~ automatically selecting for transmission a portion of optional content data of the at least one web page responsive to the determined at least one performance characteristic; and

transmitting the at least one selected web page, including the non-optional content data and the selected portion of optional content data to the remote device.

² These claims were already canceled before this response to Office Action.
Steven Swernofsky
Swernofsky Law Group PC
7/26/2005 3:58 PM

21. (currently amended) The method of claim 20 wherein selecting for transmission a portion of optional content data further comprises:

selecting one of a plurality of optional content items responsive to the performance characteristics of the remote device;

wherein content items of the plurality of optional content items that have not been selected are not transmitted to the remote device.

22. (currently amended) The method of claim 21 wherein the plurality of optional content items is ordered with respect to highest and lowest performance characteristics of remote ~~client~~ remote devices, and selecting comprises:

responsive to a remote ~~client~~ device having a highest performance characteristic, selecting a first ordered content item of the plurality of optional content items.

23. (currently amended) The method of claim 21 wherein the plurality of content items is ordered with respect to highest and lowest performance characteristics of remote ~~client~~ devices, and selecting further comprises:

responsive to a remote ~~client~~ device having a highest performance characteristic, selecting a last ordered content item.

24. (currently amended) The method of claim 21 ~~22~~ wherein the plurality of optional content items is ordered with respect to highest and lowest performance characteristics of remote devices, optimization constraints are as-

signed to classes of ~~client~~ remote devices, and each class of ~~client~~ remote device has different performance characteristics, further comprising:

~~determining the performance characteristics of the requesting client device;~~

determining a class of ~~client~~ remote device to which the requesting ~~client~~ remote device belongs responsive to the determined performance characteristics of the requesting ~~client~~ remote device; and

assigning the requesting ~~client~~ remote device an optimization constraint responsive to the determined class of ~~client~~ remote device to which the requesting ~~client~~ remote device belongs; and

wherein selecting one of a plurality of optional content items comprises selecting a content item whose order corresponds to the optimization constraint.

25. (currently amended) The method of claim 24 wherein selecting a content item whose order corresponds to the optimization constraint comprises further comprising:

responsive to an optimization constraint specifying a class of device having a lowest performance characteristic, selecting a content item requiring a least amount of bandwidth to be transmitted.

26. (currently amended) The method of claim 24 wherein selecting a content item whose order corresponds to the optimization constraint comprises further comprising:

responsive to an optimization constraint specifying a class of device having a lowest performance characteristic, selecting a content item comprising a least amount of data.

27. (currently amended) The method of claim 21 wherein optimization constraints are associated with each content item, and the optimization constraints index classes of remote ~~client~~ devices, wherein each class of remote ~~client~~ device has different performance characteristics, further comprising:

assigning the requesting remote ~~client~~ device an optimization constraint responsive to the performance characteristics of the requesting remote ~~client~~ device; and

selecting comprises selecting a content item responsive to the assigned optimization constraint.

28. (currently amended) The method of claim 27 wherein assigning an optimization constraint responsive to the performance characteristics of the requesting remote ~~client~~ device further comprises:

determining a connection type in use by the remote ~~client~~ device; and

associating an optimization constraint responsive to the connection type of the remote ~~client~~ device.

29. (currently amended) The method of claim 27 wherein assigning an optimization constraint responsive to the performance characteristics of the requesting remote client device further comprises

determining a connection type in use by the remote client device;
and

associating an optimization constraint responsive to the connection type of the remote client device.

30. (currently amended) A computer-readable medium for use in a system having a web server for storing content data, and which is connected to a plurality of client devices, the computer-readable medium storing instructions which cause the server to:

store a plurality of files, including files containing non-optional content data and optional content data;

receive a request for content data from a client device;

determine performance characteristics of the client device, the performance characteristics being selected from the group consisting of requesting client device operating system, connection type, processor type, amount of memory, user preferences, display size, and software installed;

select one of the plurality of stored files for providing to the client device;

automatically include from the selected file the non-optional content data, and automatically select optional content data responsive to the performance characteristics of the requesting client device; and

transmit the selected file, including the non-optional content data and the selected optional content data to the client device.

31. (original) The computer-readable medium of claim 30 wherein the stored instructions further cause the processor to:

select one of a plurality of content items responsive to the performance characteristics of the requesting client device.

32. (original) The computer-readable medium of claim 31 wherein the plurality of content items is ordered with respect to performance characteristics of client devices, and the stored instructions further cause the processor to:

responsive to a client device having a highest performance characteristic, select a first ordered content item.

33. (currently amended) The computer-readable medium of claim 31 wherein optimization constraints are assigned to classes of client devices, and each class of client device has different performance characteristics, and the stored instructions further cause the processor to:

~~determine the performance characteristics of the requesting client device;~~

determine a class of client device to which the requesting client device belongs ~~belong~~ responsive to the performance characteristics of the requesting client device;

assign the requesting client device an optimization constraint responsive to the determined class of client device to which the requesting client device belongs; and

select one of a plurality of optional content items by selecting a content item corresponding to the optimization constraint.

34. (original) The computer-readable medium of claim 32 wherein optimization constraints are associated with each content item, and the optimization constraints index classes of client devices, wherein each class of client device has different performance characteristics, and the stored instructions further cause the processor to:

assign the requesting client device an optimization constraint responsive to the performance characteristics of the requesting client device; and

select a content item responsive to the assigned optimization constraint.

35. (original) The computer-readable medium of claim 34 wherein the stored instructions further cause the processor to:

determine a connection type in use by the client device; and

associate an optimization constraint responsive to the connection type of the client device.

36. (currently amended) A method of optimizing the delivery of content data from a web server to a client device, wherein the content data is

comprised of content items, optimization constraints are associated with each content item, the optimization constraints index classes of client devices, and wherein each class of client device has different performance characteristics, the method comprising:

receiving a request for content data from the client device;

determining a class of device to which the requesting client device belongs responsive to the performance of the requesting client device, at least one performance characteristic being selected from the group consisting of requesting client device operating system, connection type, processor type, amount of memory, user preferences, display size, and software installed;

assigning the requesting client device an optimization constraint responsive to the determined class of client device;

selecting one of a plurality of content items responsive to the assigned optimization constraint; and

transmitting the selected optional content to the client device.

37. (canceled).

/ / /